

us-09-765-034-2.p2n.png

2002 CompuGen Ltd

December 9, 2003 00:21

(without alignments)  
2838.368 Million cells

BLOSUM62

Searched: 3105000 0.0 / delexit 7.0

seqs, 1125999159 residues

Minimum DB seq length: 6

Post-processed: 200000000000

Maximum Match	100%
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Command line parameters:  
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-LIST=45 -DOCLINK=200 -STAR=1 -END=1 -MARRY=blomsm62 -TRASN=blomsm40.cdi
-MODE=LOCAL -OUTFMT=ppn -NOR=ext -HEAPSIZE=500 -MINLEN=0 -MLLEN=15
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-YGAPOP=10 -YGAPEXT=0.5 -DELPO=6 -DELEXT=7
-FGAPOP=6 -FGAPEXT=0.5 -DELPO=6 -DELEXT=7
database
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution

[illegible]



06/06/97

ID ABL90790 standard; cDNA: 1436 BP.  
 AC ABL90790;  
 XX 24-MAY-2002 (first entry)  
 DE Human polynucleotide SEQ ID NO 1352.  
 XX Cytostatic; immunosuppressive; neurotropic; neuroprotective; antiviral;  
 KW antifungal; hepatotropic; antidiabetic; antiinflammatory; antitumor;  
 KW antiparasitic; anticonvulsant; antibacterial; antifungal; antiparasitic;  
 KW cardiac; gene therapy; cancer; immune disorder; cardiovascular disorder;  
 KW neurological disease; infection; human; secreted protein; gene; ss.  
 OS Homo sapiens.  
 XX MO200190304-A2.  
 PN 29-NOV-2001.  
 XX 18-MAY-2001; 2001MO-US16450.  
 PF 19-MAY-2000; 2000US-205515P.  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 PA Birse CE, Rosen CA;  
 PI WPI; 2002-122018/16.  
 DR P-PSDB; ABB90381.  
 XX Novel 1405 isolated polypeptides, useful for diagnosis, treatment and  
 PT prevention of neural, immune system, muscular, reproductive,  
 PT gastrointestinal, pulmonary, cardiovascular, renal and proliferative  
 PT disorders -

Claim 4; SEQ ID NO 1352; 2081bp + Sequence Listing: English.

The invention relates to novel genes (ABL89449-ABL90853) and proteins (ABB89040-ABB90444) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, diabetes mellitus, Crohn's disease, hemolytic anaemia, autoimmune thyroiditis, arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemia; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.  
 Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pcr\_sequences.

SO Sequence 1436 BP; 397 A; 309 C; 289 G; 441 T; 0 other;  
 Alignment Scores:  
 Pred. No.: 3 296-160 Length: 1436  
 Score: 1737.00 Matches: 333  
 Percent Similarity: 99.708 Conservative: 0  
 Best Local Similarity: 99.708 Mismatches: 1  
 Query Match: 99.438 Indels: 0  
 DB: 24 Gaps: 0

US-09-765-034-2 (1-334) x ABL90790 (1-1436)

QY 1 MetLeuGlyIleMetAlaTrpAsnAlaThrCysLysAsnTrpLeuAlaIaGluAla 20  
 DB 93 ATGCTGGGAGATCATGATGCAATGCAAACTTGCTGGCAGCAGAGGCTGCC 152

QY 21 LeuGlyIleTyrTyrLeuSerIlePheTyrGlyIleGluPheValIaGlyValLeuGly 40  
 DB 153 CTGGAAAAGTACTACCTTCATTTTATGGATTGATGCTGGAGAGCTTGA 212  
 QY 41 AsnThrIleValIaTyrGlyIlePheSerLeuLysAsnTrpAsnSerSerAsnIle 60  
 DB 213 AATACCATGTTGTTTACGGCTACATCTCTCTGTAAGAACGTGAACACACATTAATT 272  
 QY 61 TyrLeuPheAsnLeuSerValSerAspLeuAlaPheLeuCysThrLeuPromLeuIle 80  
 DB 273 TATCTCTTTAACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 332  
 QY 81 ArgSerTyrAlaAsnGlyAsnTrpIleTyrGlyAspValLeuCysIleSerAsnArgTyr 100  
 DB 333 AGGAGTTAGCCAAATGGAACCTGATATGAGACGCTGCTCATPAGAACCGATAT 392  
 QY 101 ValLeuHisAlaAsnLeuTyrThrSerIleLeuPheLeuThrPheIleSerIleAspArg 120  
 DB 393 GTGCTTCATGCCAACCTCATACAGCATTTCTTCTTCACCTTTATCAGCATGATCGA 452  
 QY 121 TyrLeuIleIleLysTyrProPheArgGluHisLeuLeuGlnLysGluPheAlaIle 140  
 DB 453 TACTGATATTAAGATACCTTCCGAGAACCTTCCGAAAAGAGAGTTGCTATT 512  
 QY 141 LeuIleSerLeuAlaIleTrpValLeuValIleThrLeuGluLeuProIleLeuProIle 160  
 DB 513 TTAACTCCCTGGCCATTTGGGTTTGTAGTAACTTAAAGATTACTACCATCTCCCTT 572  
 QY 161 IleAsnProValIleThrAspAsnGlyThrTyrCysAsnAspPheAlaSerSerClyAsp 180  
 DB 573 ATAATCTCTTAACTGATGACATGACACCATCTTAATGATTTGCAAGTTCTGAGAC 632  
 QY 181 ProAsnTyrAsnLeuIleTyrSerMetCysLeuThrLeuLeuGlyPheLeuIleProIle 200  
 DB 633 CCCAACACCAACCATTTACAGATGCTGCTAACTGTGGGGTCTTATTCCTCT 692  
 QY 201 PheValMetCysPhePheTyrTyrLysIleAlaLeuPheLeuLysGlnArgAsnArgGln 220  
 DB 693 TTTGTGATGCTTCTTCTTATTAACAGATTGCTCTCTCTTAAGAGAGAGATGAGCAG 752  
 QY 221 ValAlaThrAlaLeuProLeuGlnLysProLeuAsnLeuValIleMetAlaValIle 240  
 DB 753 GTTGTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 812  
 QY 241 PheSerValProPheThrProTyrHisValMetArgAsnValArgIleAlaSerArgLeu 260  
 DB 813 TTCTGTGCTTGTATACACCTATCAGCTCATGCGGAATGAGATGCTTACCGCTC 872  
 QY 261 GlySerTrpLysGlnTyrGlnCysThrGlnValValIleAsnSerPheTyrIleValThr 280  
 DB 873 GGGAGTTGAAACCATATCAGTGCACCTGACCTGCTCATCACTCTTACATTTGACCA 932  
 QY 281 ArgProLeuAlaPheLeuAsnSerValIleAsnProValPheTyrPheLeuGlyAsp 300  
 DB 933 CGGCTTTGGCTTCTGTAAGTGTATCAACCTGCTCTTATTTCTTTGGGAT 992  
 QY 301 HisPheArgAspMetLeuMetAsnGlnLeuArgHisAsnPheLysSerLeuThrSerPhe 320  
 DB 993 CACTTCAGGACATGCTGATGATGATCACTGACGACACCACTCAATCCCTTACATCTCTT 1052  
 QY 321 SerArgTrpAlaHisGluLeuLeuLeuSerPheArgGlyLys 334  
 DB 1053 AGCAGATGGGCTCATGATCCTTCTTATTCAGAGAAAG 1094  
 RESULT 4  
 AAD24958  
 ID AAD24958 standard; cDNA: 1542 BP.  
 AC AAD24958;  
 XX 12-MAR-2002 (first entry)  
 DE Human G-protein coupled receptor-3 (GCR3) cDNA.



```
XX 11-SEP-1997 (first entry)
DE Human purinergic receptor P2U2 cDNA.
XX P2U2 receptor; purinergic receptor; diagnosis; therapy; ss.
XX Homo sapiens.
FH Key location/Qualifiers
FT CDS 625..1629
FT tag= a
XX MO9720045-A2.
XX 05-JUN-1997.
XX 08-NOV-1996; 96WO-0518175.
XX 15-NOV-1995; 95US-0559524.
XX 15-NOV-1995; 95US-0006782.
XX (COR-) COR THERAPEUTICS INC.
XX Conley PB, Jantzen H;
XX WPI; 1997-310601/28.
XX P-PSDB; AAM19854.
XX New isolated purinergic receptor sub-type - used to develop
XX products for diagnosis and therapy, e.g. for screening for agonists
XX and antagonists which can modulate activation
XX Claim 3; Fig 1A-C; 36pp; English.
XX A cDNA clone (AA71900) codes for a novel human purinergic receptor
XX subtype, designated P2U2 receptor (AAM19854), that is abundantly
XX expressed in kidney and in many cell lines of megakaryocytic or
XX erythroleukemic origin and which is activated by ATP, UDP, UTP and
XX UDP. The clone was obtd. by amplifying DMI (ATCC CRL 9792) cell
XX cDNA using primers (see also AA72104-05) based on transmembrane
XX regions of mouse P2u and chicken P2Y1 receptors, and use of the PCR
XX product to screen the DMI cDNA library to isolate the full-length
XX cDNA. P2U2 nucleic acids can be used in the recombinant prodn. of
XX P2U2 receptor polypeptides and as probes.
XX Sequence 1996 BP; 513 A; 454 C; 381 G; 647 T; 1 other:
XX
XX Alignment Scores:
XX Pred. No.: 7.57e-159 Length: 1996
XX Score: 1725.00 Matches: 331
XX Percent Similarity: 99.10% Conservative: 0
XX Best Local Similarity: 99.10% Mismatches: 3
XX Query Match: 98.74% Indels: 0
XX DB: 18 Gaps: 0
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XX US-09-765-034-2 (1-334) x AA71900 (1-1996)
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XX QY 1 MelLeuGlylleWetlAtRpAsnaIaThrCysLysAsnTrpLeuAlaAlaGluAla 20
XX |
XX DB 625 ATGCTGGGATCAGTCAAGCAATGCAACTGCAAAAATGCTGCGACAGAGCTTCC 684
XX
XX QY 21 LeuGluLysTrpTyrLeuSerIlePheTyrGlyIleGluPheValValGlyValLeuGly 40
XX |
XX DB 685 CTGGAAGAAAGTACCTTCCATTTTATGGATTGAGCTGATGATGGAGTCTTGA 744
XX
XX QY 41 AsnThrIleValValTyrGlyTyrIlePheSerLeuLysAsnTrpAsnSerSerAsnIle 60
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XX DB 745 AATACCAATGTGTGTTACGGCTACATCTTCTCTGAGAACTGACAGCATATATT 804
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XX QY 61 TyrLeuPheAsnLeuSerValSerAspLeuAlaPheLeuLysThrLeuPheLeuIle 80
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XX DB 805 TATCTCTTAACTCTCTGCTCTGACTAGCTTTTCTGTGCACCCCTCCCATGCTGATA 864
XX
XX 81 ArgSerTyrAlaAsnGlyAsnTrpIleTyrGlyAspValLeuCysIleSerAsnArgTyr 100
XX |
XX DB 865 AGAGATTATGCAATGAAATGGAATATATGAGACGCTCTGCTGATAGCAACGATAT 924
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XX QY 101 ValLeuHisAlaAsnLeuTyrThrSerIleLeuPheLeuThrPheIleSerIleAspArg 120
XX |
XX DB 925 GTGCTTACGCAACCTCTATACACAGCATCTCTCTCATCTTTATATGCAATATGCA 984
XX
XX QY 121 TyrLeuIleIleLysTyrProPheArgGluHisLeuLeuGlnLysLysGluPheAlaIle 140
XX |
XX DB 985 TACTTGATTAATTAAGTATCTTCCGAAACCTTCTGCAAAAAGAAAGATTGCTATT 1044
XX
XX QY 141 LeuIleSerLeuAlaIleTrpValLeuValThrLeuGluLeuLeuProIleLeuProIle 160
XX |
XX DB 1045 TTAATCTCTTGGCCATTGGTTTGTAGTAACTTAAGTTACTACCAATCTTCCCTT 1104
XX
XX QY 161 IleAsnProValIleThrAspAsnGlyThrThrCysAsnAspPheAlaSerSerGlyAsp 180
XX |
XX DB 1105 ATAAATCCGTATTAACAGACATGGCACACCTGTATATGATTTTGCAGATTCGGAGAC 1164
XX
XX QY 181 ProAsnTyrAsnLeuIleTyrSerMetCysLeuThrLeuLeuGlyPheLeuIleProLeu 200
XX |
XX DB 1165 CCCACTACAACTCATTTACAGCATGTCTAACACAGTGGGGTCTTATTCCTT 1224
XX
XX QY 201 PheValMetCysPhePheTyrTyrIleAlaLeuPheLeuLysGlnArgAsnArgGln 220
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XX DB 1225 TTTGTATGTGTCTTTCTTTTATTAAGATGCTCTCTTCTTAAGCAGAGATAGGAC 1284
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XX QY 221 ValAlaThrAlaLeuProLeuGlnLysProLeuAsnLeuValIleMetAlaValAlaIle 240
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XX DB 1285 GTTGCTACCTCTGCTGCTTGAAGCCTCAACTGTCATCATGCGAGTATC 1344
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XX QY 241 PheSerValProPheThrProTyrHisValMetCysAsnValArgIleAlaSerArgLeu 260
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XX DB 1345 TTCTCTGCTTTTACACCTTACCTACGCTACGCGAATGATGATGCTTACGCTG 1404
XX
XX QY 261 GlySerTrpLysGlnTyrGlnCysThrGlnValValIleAsnSerPheTyrIleValThr 280
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XX DB 1405 GGGAGTTGAAAGCATGATCATGCTACAGTGTGTCATCACTTTCATTTGATGACA 1464
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XX QY 281 ArgProLeuAlaPheLeuAsnSerValIleAsnProValPheTyrPheLeuGlnLysP 300
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XX DB 1465 CGGGCTTTGGCTTCTGAAACAGTGTATCAACCTCTCTCTATTTCTTTGGAGAT 1524
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XX QY 301 HisPheArgAspMetLeuMetAsnGlnLeuArgHisAsnPheLysSerLeuThrSerPhe 320
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XX DB 1525 CACTTCAGGACATGCTGATCAATCACTGAGACAACTCAATCCCTTACATCTT 1584
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XX QY 321 SerArgTrpAlaHisGluLeuLeuLeuSerPheArgGlnLys 334
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XX DB 1585 ACGAGATGGGCTCAGTAAGTCTTACTTTCATTCAGAGAAAG 1626
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XX RESULT 6
XX AAC81122
XX ID AAC81122 standard; cDNA; 1385 BP.
XX
XX AC AAC81122;
XX
XX AC 14-FEB-2001 (first entry)
XX
XX DE Human secreted protein gene 37 SMO ID NO:47.
XX
XX KW Human; secreted protein; diagnosis; immunosuppressive; antiarthritic;
XX antitumor; antiproliferative; cytosolic; cardiac; vasodilator;
XX cerebroprotective; neuroprotective; antiinfective; antiviral;
XX fungicide; ophthalmological; valvular; gene therapy; autoimmune disease;
XX hyperproliferative disorder; cardiovascular disorder; angiogenesis;
XX cerebrovascular disorder; nervous system disorder; infection; skin aging;
XX ocular disorder; wound healing; food additive; preservative; ss.
XX
XX KW Homo sapiens.
XX
XX OS
```

PN MO200061628-A1.  
XX 19-OCT-2000.  
XX 06-APR-2000; 2000MO-US09070.  
PF 09-APR-1999; 99US-0126695.  
PR 14-JAN-2000; 2000US-0176052.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Rosen CA, Ruben SM, Komatsoulis G;  
XX WPI; 2000-619228/59.  
DR P-PSDB; AAB45344.  
XX New nucleic acid molecules encoding 49 human secreted proteins for  
PT diagnosing, preventing, treating or ameliorating medical conditions and  
PT used as food additives or preservatives -  
XX  
XX Claim 1; Page 412; 454pp; English.  
XX The polynucleotide sequences given in AAC81086 to AAC81134 encode the  
CC human secreted proteins given in AAB45308 to AAB45356. AAB45357 to  
CC AAB45384 represent human secreted polypeptide sequences and proteins  
CC homologous to them, which are given in the exemplification of the present  
CC invention. Human secreted proteins have activities based on the tissues  
CC and cells the genes are expressed in. Examples of activities include:  
CC antiallergic; immunosuppressive; antineoplastic; antiproliferative;  
CC cytoskeletal; cardiant; vasotropic; cerebroprotective; nociceptive;  
CC neuroprotective; antibacterial; virucide; fungicide; ophthalmological;  
CC and vulnerary. The polynucleotides and polypeptides can be used to  
CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,  
CC rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used  
CC in diagnosing a pathological condition or susceptibility to a  
CC pathological condition. Disorders which are diagnosed or treated include  
CC autoimmune diseases, hyperproliferative disorders, cardiovascular  
CC disorders, cerebrovascular disorders, angiodysplasia, nervous system  
CC disorders, infections caused by bacteria, viruses and fungi and ocular  
CC disorders. The polypeptides can also be used to aid wound healing and  
CC maintain organs before transplantation, for supporting cell culture of  
CC primary tissues, to regenerate tissues and in chemotaxis. The  
CC polypeptides can also be used as a food additive or preservative to  
CC increase or decrease storage capabilities, fat content, lipid, protein,  
CC carbohydrate, vitamins, minerals, cofactors and other nutritional  
CC components. AAC81077 to AAC81085 and AAB45307 represent sequences used in  
CC the exemplification of the present invention.  
XX  
XX SQ Sequence 1385 BP; 385 A; 296 C; 275 G; 429 T; 0 other;  
SQ  
Alignment Scores:  
Pred. No.: 1 71e-157 Length: 1385  
Score: 1709.00 Matches: 332  
Percent Similarity: 99.40% Conservative: 0  
Best Local Similarity: 99.40% Mismatches: 2  
Query Match: 97.82% Indels: 1  
DB: 21 Gaps: 0  
US-09-765-034-2 (1-334) x AAC81122 (1-1385)  
QY 1 MetLeuGIYLleMeLaItrPaSaNaIaIhnrCysLysAsnTrpLeuAlaIaGIuAlaIa 20  
DB 49 ATGCTGGGATCATGCGATGGAATGCAAACTGCAAAAGCTGCGACAGAGGCTGCC 108  
QY 21 LeuGIuLysTrpTrpLeuSerIlePheTrpGIYLleGIuPheValValGIuLleuGIY 40  
DB 109 CTGGAAAGAGTACCTTCATTTTATATGGCATTCAGTTCCTGGGAGAGCTTGGGA 168  
QY 41 AsnThrIleValValTrpGIYTrpIlePheSerLeuLysAsnTrpAsnSerSerAsnIle 60  
DB 169 AATACCATTTGTTTACGGCTACATCTCTCTGGAAGAACTGGAACAGCAGTAATATT 228

QY 61 TyrLeuPheAsnLeuSerValSerAspLeuAlaPheLeuGlySerIleuPheLeuIle 80  
DB 229 TATCTCTTAACCTCTCTGCTGACTTACTTCTTCTGACCTCCATCGCTGATA 288  
QY 81 ArgSerTrpAlaAsnGlyAsnTrpIleTyrGIYAspValLeuGlyIleSerAsnArgTyr 100  
DB 289 AGGAGTTATGCCAATGGAACCTGATATATGAGACACGCTGCTGCATACGAACCATAT 348  
QY 101 ValLeuHisAlaAsnLeuTrpThrSerIleuPheLeuThrPheIleSerIleAspArg 120  
DB 349 GGGCTTCATGCCAACCTTATACAGCATCTCTTCTTCATCTTATACAGCATGATCGA 408  
QY 121 TyrLeuIleIleLysTrpProPheArgIuHisLeuLeuGlyLysGIuPheAlaIle 140  
DB 409 TACTTGATTAATTATATACCTTTCCGAGACACCTTCTGCAAAAGAAAGATTTGCTATT 468  
QY 141 LeuIleSerLeuAlaIleTrpValLeuValThrLeuGIuLeuProIleuProLeu 160  
DB 469 TTAATCTCCTTGCCATTTGGTTTACTTACCTTAGAGTTACTACCATCTTCCCTT 528  
QY 161 IleAsnProValIleThrAspAsnGlyThrTrpCysAsnAspPheAlaSerSerGlyAsp 180  
DB 529 ATAAATCCCTGTATTAACGACAAATGACACACCTGTAATGATTGGATCTGGAGAC 588  
QY 181 ProAsnTrpAsnLeuIleTyrSerMetCysLeuThrLeuLeuGlyPheLeuIleProLeu 200  
DB 589 CCACACTACACCTCATTTACGACATGCTGTACACAGTGGGTCTCTTATTCCTCTT 648  
QY 201 PheValMetCysPhePheTrpTrpIleAlaLeuPheLeuLysGIuAsnArgGln 220  
DB 649 TTGTGATGTTGTTCTTTATTACAAGATGCTCTCTTAAACACAGAGAAATGGGAG 708  
QY 221 ValAlaThrAlaLeuProLeuGIuLysProLeuAsnLeuValIleMetAlaValAlaIle 240  
DB 709 GTTGCTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 768  
QY 241 PheSerValProPheThrProTyrHisValMetArgAsnValArgIleAsnArgIleu 260  
DB 769 TTCTCTGCTGTTTACACCTTACACCTTACACCTTACACCTTACACCTTACACCTTAC 828  
QY 261 GlySerTrpLysGlnTrpGlnCysTrpGlnValValIleAsnSerPheTrpIleValThr 280  
DB 829 GGGAGTTGGAAGCAGTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 888  
QY 281 ArgProLeuAlaPheLeuAsnSerValIleAsnProValPheTrpPheLeuGlyAsp 300  
DB 889 CG-CTTTGGCTTTTCTGAAACAGTGCATGATACCCGCTCTTATTTCTTTGGAGAT 947  
QY 301 HisPheArgAspMetLeuMetAsnGlnLeuArgHisAsnPheLysSerLeuThrSerPhe 320  
DB 948 CACTTCAGGGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1007  
QY 321 SerArgTrpAlaHisGlnLeuLeuLeuLeuSerPheArgIuLys 334  
DB 1008 AGCAGATGGGCTCATGAATCTCTTCTTCTTCTGAGAAAG 1049  
RESULT 7  
ID AAT75146 standard; CDNA: 1428 BP.  
AC AAT75146;  
XX 07-OCT-1997 (first entry)  
XX  
XX Human ATP receptor CDNA.  
XX  
XX ATP receptor; G-protein coupled receptor; agonist; antagonist; ss.  
XX Homo sapiens.  
XX  
XX Key location/Qualifiers  
XX CDS 92..1096  
XX FT /\*tag= a  
FT





XX Mouse; G-protein coupled; receptor; GPCR; TGR18; kidney disease;  
KM signal transduction modulator; cerebral cavernous malformation;  
KM hyperlipidemia; obesity; dyslexia; cardiac myxoma; renal failure;  
KM nephritis; hypertension; liver disease; cirrhosis; blood disorder;  
KM spleen associated disorder; immune disorder; gene; ds.  
OS Mus sp.  
XX  
XX  
XX Key Location/Qualifiers  
FT CDS 44..997  
FT /tag= a  
FT /product= "Mouse G-protein coupled receptor TGR18"  
XX  
XX W0200200719-A2.  
XX  
XX 03-JAN-2002.  
XX  
XX 25-JUN-2001; 2001WO-US20363.  
XX  
XX 23-JUN-2000; 2000US-213461P.  
XX (TUL- ) TULARIK INC.  
XX  
XX Lin DC, Zhao J, Chen J, Cutler G;  
XX  
XX WPI: 2002-147880/19.  
XX P-PSDB; AA074904.  
XX  
XX New G-protein coupled receptor polypeptides, useful for identifying  
PT modulators of signal transduction for treating kidney disease,  
PT hyperlipidemia, obesity, dyslexia and cardiac myxoma  
XX  
XX Claim 18; Page 58; 78pp; English.  
XX  
XX The present invention relates to a new G-protein coupled receptor (GPCR)  
CC polypeptide comprising greater than 708 amino acid sequence identity to  
CC the amino acid sequence of human GPCRs TGR62, TGR21, TGR130.1, TGR130.2,  
CC human TGR213 or TGR92, 808 amino acid sequence identity to mouse TGR18  
CC or 908 amino acid sequence identity to human novel edg receptor protein,  
CC as defined in the specification. The GPCR covalently linked to a solid  
CC phase is useful for identifying a compound that modulates signal  
CC transduction. The identified compounds are useful for treating  
CC kidney disease, cerebral cavernous malformations, hyperlipidemia,  
CC obesity, dyslexia and cardiac myxoma. The molecules of the invention are  
CC useful for diagnosing disorders or conditions such as kidney-related  
CC conditions or diseases such as renal failure, nephritis, nephrotic  
CC syndrome, asymptomatic urinary abnormalities, renal tubule defects,  
CC hypertension and nephrolithiasis, liver-related disease or condition  
CC e.g. cirrhosis, infiltrations, lesions, functional disorders and jaundice  
CC and spleen-associated disorders or conditions e.g. splenic enlargement,  
CC immune disorders, blood disorders and others. Modulation of the  
CC polypeptide of the invention is useful to treat or prevent any of the  
CC above conditions or diseases. The present nucleic acid sequence encodes  
CC the mouse GPCR TGR18 protein of the invention. This sequence encodes one  
CC of seven novel G protein coupled receptors of the invention (ABK12957-  
CC ABK12964).  
XX  
XX Sequence 1543 BP; 438 A; 352 C; 293 G; 460 T; 0 other;  
SQ  
XX  
XX Alignment Scores:  
Pred. No. 9.67e-111 Length: 1543  
Score: 1231.50 Matches: 227  
Percent Similarity: 85.13% Conservative: 42  
Best Local Similarity: 71.84% Mismatches: 46  
Query Match: 70.49% Indels: 1  
DB: 24 Gaps: 1  
US-09-765-034-2 (1-334) x ABK12957 (1-1543)  
Oy 5 MetAlaT rPaSnAlaThrCysLysAsnTrpLeuAlaAlaGluAlaLeuGluLysTyr 24  
Db 44 ATGCAACAGAAATTTATCTTGAGAAATGGTTGGCAACAGAGCGATCTTGAAATTAAGTAC 103

Oy 25 TyrIleSerIlePheTyrGlyIleGluPheValValGlyValIleGluGlyAsnThrIleVal 44  
Db 104 TACCTCTGCATTTTATGACATCGATTCATTTTGGACCTCTGGGAAGTGCACCTTG 163  
Oy 45 ValTyrGlyTyrIlePheSerIleuysAsnTrpAsnSerAsnIleTyrLeuPheAsn 64  
Db 164 GTTTCGCTACCTCTCTTGCATGAGAACCTGGAAACGACGACGATGCTTCTTTTAC 223  
Oy 65 LeuSerValSerAspLeuAlaPheLeuGlyThrLeuProMetIleuIleArgSerTyrAla 84  
Db 224 CTTTCATCTGCATCTTCTTCCGTGGACACCTTCCCATCTGTAAGAGTTATCC 283  
Oy 85 AsnGlyAsnTrpIleTyrGlyAspValLeuGlyIleSerAsnArgTyrValLeuHisAla 104  
Db 284 AATGATTAAGGAGGACCTATGAGATGTTCTGTATTAACACCGATATGCTGCACAC 343  
Oy 105 AsnLeuTyrThrSerIleLeuPheLeuThrPheIleSerIleAspArgTyrIleIle 124  
Db 344 AACCTTACACGACGATCTCTTCTCTCCTCATTTAGCATGACGATATCTGCTCAG 403  
Oy 125 LysTyrProPheArgGluHisLeuLeuGlnLysGluPheAlaIleLeuIleSerLeu 144  
Db 404 AAGTACCTTTCGAGAACACCTTCTACAAAGAGGATTTGCCATTTTAATCTCGCTG 463  
Oy 145 AlaIleTyrValLeuValThrLeuGluLeuProIleLeuProLeuIleAsnProVal 164  
Db 464 GCTGTGGGCTTACGTGACCTTACGAGTTCACCATCTCATCTTCAATCTGTGTC 523  
Oy 165 IleThrAspAsnGlyThrThrCysAsnAspPheAlaSerSerGlyAspProAsnTyrAsn 184  
Db 524 CCAAAAGAGAGGCGATACGATCGATCGATCGATCGATCGATCGATCGATCGATCG 583  
Oy 185 LeuIleTyrSerMetCysLeuThrIleLeuGlyPheLeuIleProLeuPheValMetCys 204  
Db 584 CTGATTTACAGCCTCGCGCTGATTTGTGGGCTCTCTATTCCTCTCTGTGATGTC 643  
Oy 205 PhePheTyrTyrIleAlaLeuPheLeuGlnArgAsnArgGlnValAlaThrAla 224  
Db 644 TTTCTTACACAAAGATGATGCTTCTTAAAGAGAGGAGGACGACGACGACGACG 703  
Oy 225 LeuProLeuGluLysProLeuAsnLeuValIleMetAlaValAlaIlePheSerValPro 244  
Db 704 CTGCACTGACCAACCCCAACGCTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 763  
Oy 245 PheThrProTyrHisValMetArgAsnValArgIleAlaSerArgLeuGlySerTyrPlys 264  
Db 764 TTCACACCTATCATATTCATGCGCAATTGAGGATGCGCTCACGCTGATAGTGCCA 823  
Oy 265 GlnTyrGlnCysThrGlnValValIleAsnSerPheTyrIleValThrArgProLeuAla 284  
Db 824 CAA--GGATGTACACAGAAAGGCCATCAATATATATACACACTGACGCGCTGTGCC 880  
Oy 285 PheLeuAsnSerValIleAsnProValPheTyrPheLeuGlnLysPheAspArgAsp 304  
Db 881 TTTCTGAAAGTGCAATCATTCATCTTCTTCTGATGAGGACATTCACAGAGG 940  
Oy 305 MetLeuAsnGlnLeuArgHisAsnPheLysSerLeuThrSerPhe 320  
Db 941 ATGCTGATGATAGTTCAGACACATACTTCAAGTCCCTTACATCCCTTC 988  
RESULT 9  
AAS18599  
ID AAS18599 standard; DNA; 6721 BP.  
AC AAS18599;  
XX  
XX 12-MAR-2002 (first entry)  
XX  
XX Purinergic receptor P2Y, G-protein coupled 1 gene.  
XX  
XX Purinergic receptor P2Y, G-protein coupled 1; P2RY1; anticoagulant;  
KM coagulant; platelet aggregation; haplotyping; drug screening;

KW transgenic animal; human; ds.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT variation /tag- a (3597,T)  
FT /standard\_name- "Single nucleotide polymorphism"  
FT replace (3640,T)  
FT /tag- b  
FT /standard\_name- "Single nucleotide polymorphism"  
FT CDS 4002..5123  
FT /product- "P2RY1"  
FT /note- "Purine receptor P2Y, G-protein coupled 1"  
FT variation /tag- d (3883,T)  
FT /standard\_name- "Single nucleotide polymorphism"  
FT replace (3885,A)  
FT /tag- e  
FT /standard\_name- "Single nucleotide polymorphism"  
FT variation /tag- f (3893,A)  
FT /standard\_name- "Single nucleotide polymorphism"  
FT replace (4049,T)  
FT /tag- g  
FT /standard\_name- "Single nucleotide polymorphism"  
FT variation /tag- h (4058,T)  
FT /standard\_name- "Single nucleotide polymorphism"  
FT replace (4102,T)  
FT /tag- i  
FT /standard\_name- "Single nucleotide polymorphism"  
FT variation /tag- j (4136,G)  
FT /standard\_name- "Single nucleotide polymorphism"  
FT replace (4199,T)  
FT /tag- k  
FT /standard\_name- "Single nucleotide polymorphism"  
FT variation /tag- l (4689,C)  
FT /tag- m  
FT /standard\_name- "Single nucleotide polymorphism"  
FT replace (4786,G)  
FT /tag- n  
FT /standard\_name- "Single nucleotide polymorphism"  
FT variation /tag- o (4787,G)  
FT /standard\_name- "Single nucleotide polymorphism"  
FT replace (5158,G)  
FT /tag- o  
FT /standard\_name- "Single nucleotide polymorphism"  
XX  
PN WO200190117-A2.  
XX  
PD 29-NOV-2001.  
XX  
PF 21-MAY-2001; 2001WO-US16432.  
XX  
PR 19-MAY-2000; 2000US-205996P.  
XX  
PA (GENA-) GENA/ISSANCE PHARM INC.  
XX  
PI Kazemi A, Koshy B, Tanguay DA;  
XX  
DR WPI: 2002-083074/11.  
XX  
P-PSDB: MAU10983.  
XX  
PT New purinergic receptor p2y G-protein coupled 1 (P2RY1) gene  
XX  
PT polymorphic variants, useful e.g. in studying the expression and  
XX  
PT function of P2RY1 and screening candidate drugs for treating diseases  
XX  
PS related to P2RY1 activity  
XX  
PS Disclosure; Fig 1; 79pp; English.

XX  
CC The invention relates to a novel isolated polypeptide comprising a  
CC sequence which is a polymorphic variant of a reference sequence for the  
CC purinergic receptor P2Y, G-protein coupled, 1 (P2RY1) protein or its  
CC fragment. The polymorphic variant comprises one or more variant amino  
CC acids selected from valine at a position 34 and glycine at a position  
CC 262. The polymorphic variants are useful in studying the expression  
CC and function of P2RY1, in expressing P2RY1 protein for use in screening  
CC for candidate drugs to treat diseases related to P2RY1 activity, in  
CC studying the effect of the variation on the biological activity of  
CC P2RY1, and the binding affinity of candidate drugs targeting P2RY1 for  
CC the treatment of disorders related to platelet aggregation. The  
CC haplotyping methods are useful in validating P2RY1 as a candidate  
CC target for treating a specific condition or disease predicted to be  
CC associated with P2RY1 activity, or in the design of clinical trials of  
CC candidate drugs for treating a specific condition or disease associated  
CC with P2RY1 activity. The transgenic animals are useful for studying  
CC expression of the P2RY1 isogenes in vivo, for in vivo screening and  
CC testing of drugs targeted against P2RY1 protein, and for testing the  
CC efficacy of therapeutic agents and compounds for disorders related to  
CC platelet aggregation in a biological system. The present sequence  
CC represents the coding sequence of human purinergic receptor P2Y,  
CC G-coupled protein 1 (P2RY1).  
XX  
SQ Sequence 6721 BP; 1906 A; 1547 C; 1561 G; 1684 T; 23 other;  
Alignment Scores:  
Pred. No.: 3,55e-38 Length: 6721  
Score: 498.00 Matches: 117  
Percent Similarity: 54.49% Conservative: 59  
Best Local Similarity: 36.22% Mismatches: 130  
Query Match: 28.51% Indels: 17  
DB: Gaps: 7  
US-09-765-034-2 (1-334) x AAS18599 (1-6721)  
QY 1 MetLeuGlyIleMetAlaTrpAsnAlaThrCysLysAsnTrpLeuAlaAlaGlu-AlaAl 20  
DB 4070 GTCTGGGGGGAACAGACAGCGTCCGCTCCAGCGCGCTCCGCTCAATTCGTTCAATTCGCGC 4129  
QY 20 AleuGluLys-----TyrTyrLeuSerIlePheTyrGlyIleGluPheVa 35  
DB 4130 CTTGACCAAGACGGGCTTCAGTTTACTACCTCCGCGCTGTCACATCTTGATTCAT 4189  
QY 35 IValGlyValLeuGlyAsnThrIleValIValTyrGlyTyrIlePheSerLeuAsnTr 55  
DB 4190 CATCGGCTCTCTGGCAACAGCGTGCATCTGCATTTGCTTCCACATGAAGCCCTG 4249  
QY 55 PAsnSerSerAsnIleTyrIleuPheAsnLeuSerValSerAspLeuAlaPheLeuCysTr 75  
DB 4250 GAGCGGATCTCCGCTGACATGTTCAATTTGGCTGCGGACCTTCTTGACGTGAC 4309  
QY 75 rLeuProMetLeuIleArgSerTyrAlaAsn---GlyAsnTrpIleTyrLysPalle 94  
DB 4310 TCTGCCAGCCCTGATCTTCTACTACTCAATTAACAGACTGATCTTCGGGATGCCAT 4369  
QY 94 uCysIleSerAsnArgTyrValLeuHisAlaAsnLeuTyrThrSerIleuPheLeuTh 114  
DB 4370 GTGTAACTGCAGAGGTTTCACTTTCATGTGACACTGATGAGACATCTGTTTGTAC 4429  
QY 114 rPheIleSerIleAspArgTyrLeuIleIleTyrTyrProPheArgGlnHisLeuLeu 134  
DB 4430 ATGCATCAGTGCACCGACCGGTGCGTGCACCCCTCAATCCCTCGGCGCGCT 4489  
QY 134 nLysLysGluPheAlaIleLeuLeuSerLeuAlaIleTyrPValLeuValThLeuGluLe 154  
DB 4490 CAAAGAAACAAATGCATCTGTATCAGCGTGGTGGCTCATTTGTGGTGGCGAT 4549  
QY 154 uLeuProIleuPheLeuIleAsnProValIleThrAspAsnGlyThr---ThrcysAs 173  
DB 4550 CTCGCCCATCTCTTACTACAGTACCGGGTCCGCAAAACAAACATCATCCTGTA 4609  
QY 173 nAspPheAlaSerSerClyAspProAsnTyrAsnLeuIleTyrSerMetCysLeuThrLe 193





CC	hrp22. The endogenous and non-endogenous, constitutively activated
CC	versions of human G-protein coupled receptors (GPCR), are useful for
CC	direct identification of candidate compounds as receptor agonists,
CC	inverse agonists or partial agonists having applicability as therapies,
CC	agents for treating diseases related to GPCR, e.g. lung cancer.
CC	Non-endogenous version of human GPCRs are also utilized in research
CC	settings and in vitro and in vivo system, incorporating GPCRs can be
CC	utilised to elucidate and understand the roles these receptors
CC	play in the human condition, both normal and diseased..
xx	
SO	Sequence 1014 BP; 258 A; 263 C; 189 G; 304 T; 0 other;
Alignment Scores:	
Pred. No.:	3.3e-37
Score:	477.00
Percent Similarity:	55.88%
Best Local Similarity:	35.95%
Query Match:	27.30%
DB:	22
	Gaps: 6
US-09-765-034-2 (1-334) x AAS07948 (1-1014)	
QY	8 AsnaLathrCysLysAsnTrpLeuAlaIaGIuAlaIaLeuGluLysTrpTrpLeuSer 27
Db	67 AATGGACATGATGAAAC-----ATCCACCTAAAGATGACATACCTCCCT 11
QY	28 IllePhelyrLylIleGluPhaValaGIyValleuGlyAsnThrIleValValTrcLyl 47
Db	112 GTATTTATTTATGGCATATTCCTCCCTGCGATTTCCAGCAATGACAGTGTATATCCACT 17
QY	48 TyrllePheSerLeuLysAsnTrpAsnSerSerAsnIleTyrllePheAsnLeuSerVal 67
Db	172 TACATTTTCAAAATGAGACCTTGGAAAGACACACCATATTTATTCCTAACCTGGCCGTC 231
QY	68 SerAspLeuAlaPheLeuCysThrLeuPromeIleuIleArgSerTrpAlaAsnGly--- 86
Db	232 ACAGATCTCGGTGATGTGACACAGCTCCCTCTCGATTCACCTACTATGACCAAGTGGGA 291
QY	87 AsnTrpIleTyrcLylAspValLeuLysCysIleSerAsnArgTyrlleuAsnLeu 106
Db	292 AACTGGATCTTGGACATTTCAATGTGAAGTTATATCCCTTCACCTTCATTTCAACCTG 351
QY	107 TyrlleSerIleLeuPheLeuThrPheIleSerIleAspArgTyrlleuIleLysTrp 126
Db	352 TATAGCAGATCTCTCTCTCCTACCTGTTTCAGACATCTCCCTACCTGTGTGATCATTCAC 411
QY	127 PropArgGluHisLeuLeuGlnLysLysGluPheAlaIleLeuIleSerLeuAlaIle 146
Db	412 CCAMTGGCTGCTTTCCATTCATACAAAACCTGATGTGAGTGTAGCCCTGTGTGGTG 471
QY	147 TrpValleuValThrLeuGluLeuLeuPheProIleLeuPheLysAsnProValIleThr 166
Db	472 TGGATCATTTTCACTGGTGGCTGTATCCGATTCGATTCATTCATACATCAACCAACAG 531
QY	167 AspAsnGlyThrThrCysAsnAspPheAlaSerSerGlyAspProAsnTrpAsnLeuIle 186
Db	532 ACCAACAGATCAGCGCTGTCTGACCTACCAAGTTCCGGATGATCAATATATTAAAGTG 591
QY	187 TyrSerMetCysLeuThrLeuLeuGlyPheLeuIleProLeuPheValMetCysPhePhe 206
Db	592 TACACACGATTTTGGACAGCAACTACTTTCTGGCTCCCTGTGTATATGACACTTTGC 651
QY	207 TyrlleLysIleAlaLeuPheLeuLysGlnArgAsnArgIleValaIaThrAlaLeuPro 226
Db	652 TATACACAGATT---ATCCACACCTGTGACCCATGACAGCTGCAAACTGACAGCCCTTAA 708
QY	227 LeuLysLysProLeuAsnLeuValIleMetAlaValaIlePheSerValProPheThr 246
Db	709 ---CAGAAAGACCAAGAGCTAACCAATCTGTCTACCTTGATTTACSTAGTTTTTTA 765
QY	247 ProTyrHisValMetArgAsnValArgIleAlaSerArgLeuGlySerTrpLysIleTyr 266
Db	766 CCCTTCATATCTTGAAGCGCTATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 765



ABN85630	ID	ABN85630 standard; DNA: 1014 BP.
AC	XX	ABN85630;
AC	XX	ABN85630;
DT	XX	18-SEP-2002 (first entry)
DE	XX	Human P2Y-like receptor variant encoding gene seq ID NO 3.
XX	XX	Human: P2Y-like receptor; HIRPDM 0000037; immunity; inflammation; cancer; Crohn's disease; irritable bowel syndrome; rheumatoid arthritis; immunomodulatory; anti-inflammatory; cyostatic; antiasthmatic; gastrointestinal; anti-ulcer; antihemematic; antiarthritic; virucide; antibacterial; immunosuppressive; dermatological; nephrotropic; antiallergic; analgesic; receptor; gene; ds.
OS	XX	Homo sapiens.
FH	XX	Key
FT	XX	Location/Qualifiers
FT	XX	1..1014
FT	XX	/tag= a
FT	XX	/product= "P2Y-like receptor variant"
PN	XX	GB2369364-A.
PD	XX	29-MAY-2002.
PF	XX	31-AUG-2001; 2001GB-0021215.
PR	XX	01-SEP-2000; 2000GB-0021524.
PR	XX	06-SEP-2000; 2000GB-0021894.
PR	XX	25-SEP-2000; 2000GB-0023444.
PA	XX	(GLAXO ) GLAXO GROUP LTD.
PI	XX	Foord SM, Ignar DM;
DR	XX	WPI: 2002-511268/55.
DR	XX	P-PSDB; ABB83819.
XX	XX	
PT	XX	An isolated P2Y-like receptor polypeptide (HIRPDM 0000037) which can be used for the identification of agonists and antagonists which may be used to treat an immune or inflammatory disease -
PS	XX	Claim 5; Page 28-29; 35pp; English.
CC	XX	The invention relates to an isolated P2Y-like receptor polypeptide (ABB83818-ABB8319) which is also referred to in the specification as HIRPDM 0000037. An effective amount of a substance (agonist or antagonist) which modulates P2Y receptor activity is useful to treat a subject having a disorder that is responsive to P2Y-like receptor modulation. The disorder is a disease of immunity or inflammation. The substance may also be used to manufacture a medicine for the treatment of prophylaxis of a disorder that is responsive to stimulation or modulation of P2Y-like receptor activity. Disorders which may be treated include colon cancers, asthma, COPD, Crohn's disease, irritable bowel syndrome, gastroenteritis and colitis, inflammatory bowel syndrome, ulcerative colitis, rheumatoid arthritis, viral diseases, bacterial infections, autoimmune diseases, dermatitis, glomerulonephritis allergies, allergic rhinitis, inflammatory pain and general inflammation such as tendonitis, polymyositis or prostatitis. The invention provides alternative substances for the treatment of immunological and inflammatory diseases. The present sequence is that the P2Y-like receptor variant encoding genes of the invention.
XX	XX	Sequence 1014 BP; 258 A; 263 C; 189 G; 304 T; 0 other;
XX	XX	Alignment Scores:
XX	XX	Score: 3.3e-37
XX	XX	Length: 1014
XX	XX	Matches: 110
XX	XX	Conservative: 61
XX	XX	Mismatches: 123
XX	XX	Indels: 12
XX	XX	Query Match: 27.30%

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OY 8 AsnAlaThrCysLysAsnThrPheAlaAlaGluAlaLeuGluTyThrLeuSer	27		
Db 67 AATTGCACGTGATGAAAC-----ATCCCAACAGATGACCTACCTCT	111		
OY 28 IlePheTyrglyIleGluPheValValGlyValLeuLeuGlyAsnThrIleValValTyrgly	47		
Db 112 GTATTATTATGCAATTATCTTCTGTGGATTCCTCAGGCAATGCAAGTATGATCCACT	171		
OY 48 TyrIlePheSerLeuLysAsnThrPheSerSerAsnIleTyThrLeuPheAsnLeuSerVal	67		
Db 172 TACATTTTCAAAATGACACCTTGGAGACGACGACCAATCATTAATGTCGACACCTGGCCTGC	231		
OY 68 SerAspLeuAlaIlePheLeuCysThrLeuProMetLeuIleArgSerTyraIleAsnGly---	86		
Db 232 ACGAGTCTGGCTGATCTGCACCGCTCCCTCTCTGATTCACATCAATGTCAGTGGGAA	291		
OY 87 AsnThrIleTyrglyAspValLeuCysIleSerAsnArgTyraValLeuHisAlaAsnLeu	106		
Db 292 AACTGCACTTTGGAGATTCATGTATGAAGTATTCGCGTTCAAGCTTCATTCACACTG	351		
OY 107 TyrThrSerIleLeuPheLeuThrPheIleSerIleAspArgTyreulIleIleTyThr	126		
Db 352 TATACACACATCCCTTCCTCACCCTGTTTCAGCACTTCCTCCGCTACTGTGCATCTCAC	411		
OY 127 ProPheArgGluHisLeuLeuGluHisLysGluPheAlaIleLeuIleSerLeuAlaIle	146		
Db 412 CCAATGACCTGCTTTCCATTCACAAACACTGCATGTGCAATGTAGCCTGTGCTG	471		
OY 147 TrpValLeuValThrLeuGluLeuLeuProIleLeuProLeuIleAsnProValIleThr	166		
Db 472 TGGATCATTTGACAGTGTGAGCTGTGATTCGGATGACCTTTGATCATCATCAACACAG	531		
OY 167 AspAsnGlyThrThrCysAsnAspPheAlaSerSerGlyAspProAsnTyraAsnLeuIle	186		
Db 532 ACCAACACATGACGCTGTCTGCACCTCACCGATTCGGATGAACCTCAATTAATTAAGTGG	591		
OY 187 TyrSerMetCysLeuThrLeuLeuGlyPheLeuIleProLeuPheValMetCysPhePhe	206		
Db 592 TACACACGATTTTGACATGCAACATCTTTCGCTCCCTGGGATGATGAGACACTTGC	651		
OY 207 TyrTyrrLysIleAlaLeuPheLeuLysGlnArgAsnArgGlnValAlaThrAlaLeuPro	226		
Db 652 TATACACAGATT--ATCCACACTGTGACCCCATGAGACTGCACATGACACTGCTTAAG	708		
OY 227 LeuGluLysProLeuAsnLeuValIleMetIleValValIlePheSerValProPheThr	246		
Db 709 ---CAGAAAGCAGCAAGGCTAACCATCTCTGCTACTCCTGATTTTACGATATGTTTTTA	765		
OY 247 ProTyrrHisValMetArgAsnValArgIleAlaSerArgLeuGlySerTyrrPlyGlnTyrr	266		
Db 766 CCGTTCGATATCTTGAGGGGTATTCGGATCGAATCTGCGCTGCTTCA-----ATC	816		
OY 267 GlnCysThr---GlnValValIleAsnSerPheTyrrIleValThrArgProLeuAlaPhe	285		
Db 817 AGTTTTCATTCATGCAAAACAGATCATGATGACCTTACATCGTTTTCAGCAATTAAGCTCT	876		
OY 286 LeuAsnSerValIleAsnProValPheTyrrPheLeuLeuGlyAspHisPheArgAspMet	305		
Db 877 CTGACACACCTTTGGTAACTCTGTACTATATGTGGTGGTCAACGACACTTTCACACAGCT	936		
OY 306 LeuMetAsnGlnLeuArg 311			
Db 937 GTCGTCTCAACAGTGAGA 954			
RESULT 15			
AA034278			
XX AA034278 standard; cDNA; 1014 BP.			
AC AA034278;			

XX 16-JUL-2002 (first entry)  
XX Human AXOR89 (G-protein coupled receptor) cDNA.  
KW Human: AXOR89 polypeptide; G-protein coupled receptor; vaccine; receptor;  
KW infection; cancer; pain; asthma; Parkinson's disease; diabetes; obesity;  
KW anorexia; bulimia; acute heart failure; hypotension; hypertension; ulcer;  
KW stroke; urinary retention; osteoporosis; angina pectoris; schizophrenia;  
KW myocardial infarction; allergy; benign prostatic hypertrophy; migraine;  
KW vomiting; psychotic; neurological disorder; anxiety; manic depression;  
KW delirium; Huntington's Disease; Gilles de la Tourette's syndrome;  
KW dementia; dyskinesia; gene; ss.  
XX Homo sapiens.  
OS  
FH Key Location/Qualifiers  
FT CDS 1..1014  
FT /tag= a  
FT /product= "Human AXOR89 protein"  
XX GB2365012-A.  
XX 13-FEB-2002.  
XX 10-MAY-2001; 2001GB-0011437.  
XX 11-MAY-2000; 2000US-0569137.  
XX (SMIK ) SMITHKLINE BEECHAM CORP.  
XX (SMITHKLINE BEECHAM PLC.  
XX Elshourbagy N, Shabon U;  
XX WPI: 2002-332558/37.  
XX P-PSDB: AAE21803.  
XX Novel AXOR89 polypeptide and polynucleotide encoding it, useful for  
XX identifying agonists and antagonists in the treatment of diseases  
XX associated with an AXOR89 imbalance, such as cancers, diabetes or  
XX asthma -  
XX Claim 2; Page 30; 37pp; English.  
XX The invention relates to an isolated AXOR89 polypeptide (G-protein  
XX coupled receptor) and its polynucleotide. The novel AXOR89 polypeptide  
XX and polynucleotide encoding the polypeptide, is useful for identifying  
XX agonists and antagonists (or inhibitors) that are potentially useful in  
XX treating conditions associated with an AXOR89 imbalance, such as  
XX bacterial, fungal or protozoan infections, cancers, pain, asthma,  
XX Parkinson's Disease, diabetes, obesity, anorexia, bulimia, acute heart  
XX failure, hypotension, hypertension, urinary retention, osteoporosis,  
XX angina pectoris, myocardial infarction, stroke, ulcers, allergies, benign  
XX prostatic hypertrophy, migraine, vomiting, psychotic and neurological  
XX disorders, anxiety, schizophrenia, manic depression, delirium, dementia,  
XX dyskinesias, such as Huntington's Disease or Gilles de la Tourette's  
XX syndrome. The polynucleotide sequence may also be used for chromosome  
XX localisation or tissue expression studies. The AXOR89 is used as a  
XX vaccine or to produce fusion proteins. The present sequence is human  
XX AXOR89 cDNA.  
SQ Sequence 1014 BP; 259 A; 263 C; 188 G; 304 T; 0 other;  
Alignment Scores:  
Pred. No.: 3.3e-37 Length: 1014  
Score: 477.00 Matches: 110  
Percent Similarity: 55.88% Conservative: 61  
Best Local Similarity: 35.95% Mismatches: 123  
Query Match: 27.30% Indels: 12  
DB: 24 Gaps: 6  
US-09-765-034-2 (1-334) x AAD34278 (1-1014)

QY 8 AsnAlaThrCysLysAsnTrpLeuAlaAlaGluAlaLeuGluLysTrpTyrLeuSer 27  
DB 67 AATTCGACATGAGAAAC-----ATCCACATCAGATGACATACCTCCT 111  
QY 28 IlePheTyrGlyIleGluPheValValGlyValLeuGlyAsnThrIleValValTyrGly 47  
DB 112 GTTATTATTAGCATATATCTCTCTCTGAGATTTCACAGCAATGCAATGATATTCACCT 171  
QY 48 TyrIlePheSerLeuLysAsnTrpAsnSerSerAsnIleTyrLeuPheAsnLeuSerVal 67  
DB 172 TCAATTTTCAAAATGAGACCTTGGAAGACACACATCATATGCTGAACTGGCCCTG 231  
QY 68 SerAspLeuAlaPheLeuCysThrLeuProMetLeuIleTyrSerTyrAlaAsnGly--- 86  
DB 232 ACAGATCTGCTGATCTGACAGCCCTCCCTCTGATTCATCTACTATGCTAGTGGCGAA 291  
QY 87 AsnTrpIleTyrGlyAspValLeuCysIleSerAsnArgTyrValLeuHisAlaLeu 106  
DB 292 AACTGATCTTGGAGATTTCATGTGTATATCCGCTTACGCTTCATTCACCTG 351  
QY 107 TyrThrSerIleLeuPheLeuThrPheIleSerIleAspArgTyrLeuIleLysTyr 126  
DB 352 TATACGACAGATCTCTCTCTCTCCTCAGCTTTCACAGATCTCTCTCTCTCTCTCTCT 411  
QY 127 ProPheArgGluHisLeuLeuGluLysGluPheAlaIleLeuIleSerLeuAlaIle 146  
DB 412 CCAATGAGCTGCTTTCATTCACAAACCTGATGCAAGTGTGAGCCCTGCTGCTG 471  
QY 147 TrpValLeuValThrLeuGluLeuLeuProIleLeuProIleLeuAsnProValIleThr 166  
DB 472 TGATCATTTTCAGTCTGATGCTGATCTCATTCGATGACCTTTCATCATCAACCAAG 531  
QY 167 AspAsnGlyThrThrCysAsnAspPheAlaSerSerGlyAspProAsnTyrAsnLeuIle 186  
DB 532 ACCAAGACATGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 591  
QY 187 TyrSerMetCysLeuThrLeuLeuGluLysLeuIlePheLeuValMetCysPhe 206  
DB 592 TACAACTTAATTTTACGCAACTACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 651  
QY 207 TyrTyrIleValIleAlaLeuPheLeuLysGlnArgAsnArgGlnValAlaThrAlaLeuPro 226  
DB 652 TATACGACGAT---ATCCACATCTGACCCATGACATGCAACATGACATGCTTAA 708  
QY 227 LeuGluLysProLeuAsnLeuValIleMetAlaValValIlePheSerValProPheThr 246  
DB 709 ---CAGAAAGCAGCAGAGCTTACCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 765  
QY 247 ProTyrHisValMetArgAsnValArgIleAlaSerArgLeuGlySerTrpLysGlnTyr 266  
DB 766 CCTTCATATCTTATGAGGTCTATGTCGATCCAGATCGCTGCTGCTGCTGCTGCTGCT 816  
QY 267 GlnCysThr---GlnValValIleAsnSerPheTyrIleValThrArgProLeuAlaPhe 285  
DB 817 AGTTTTCATGATGAAATCATGATCATGATGATGATGATGATGATGATGATGATGATGAT 876  
QY 286 LeuAsnSerValIleAsnProValPheTyrPheLeuLeuGlyAspHisPheArgAspMet 305  
DB 877 CTGAACACCTTTGTTAACTGTTACTATATGTTGTTGTTGTTGTTGTTGTTGTTGTTG 936  
QY 306 LeuMetAsnGlnLeuArg 311  
DB 937 GTCTGCTCAACATGAGCA 954

Search completed: December 9, 2002, 12:22:56  
Job time : 290 secs